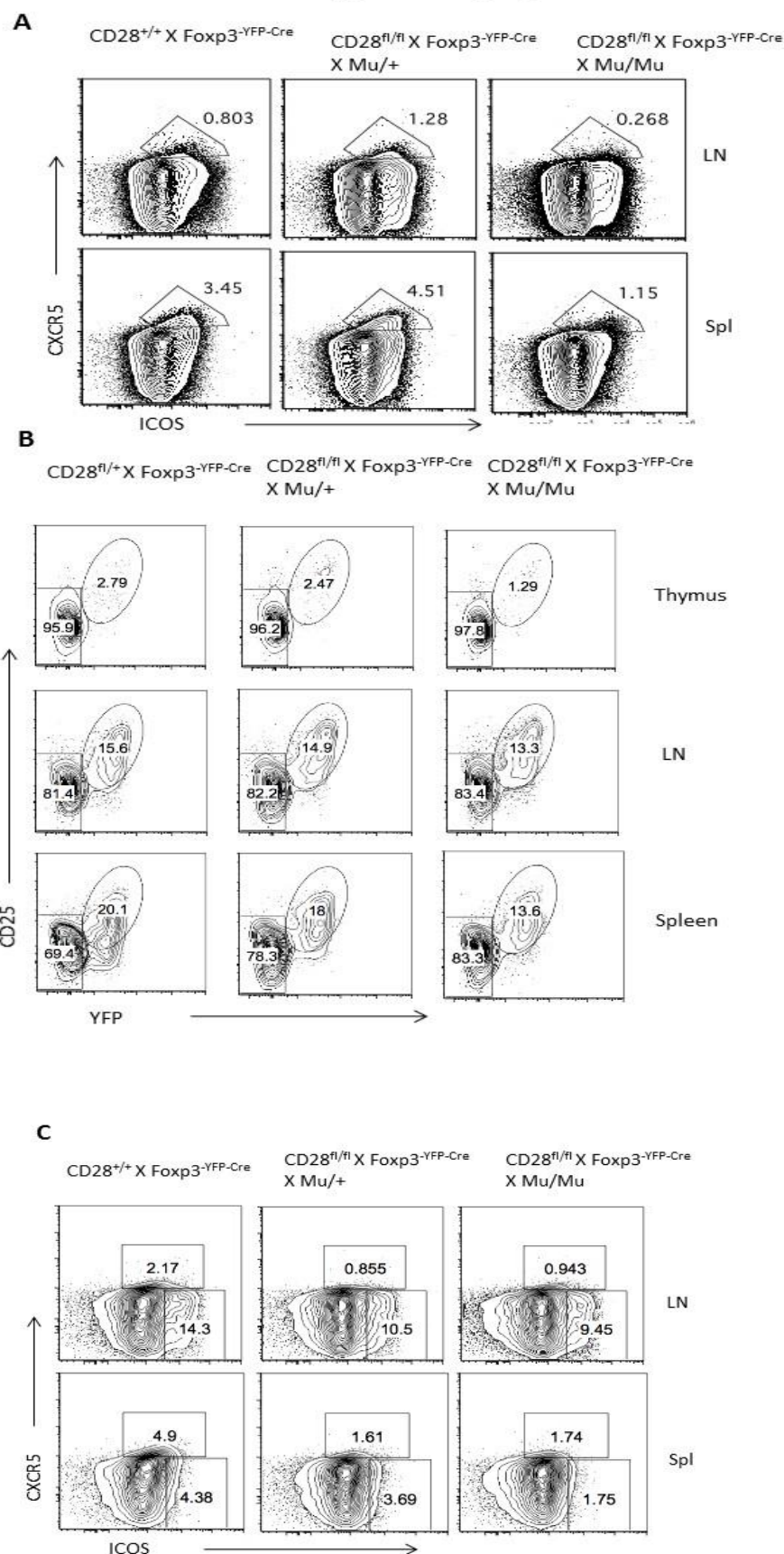
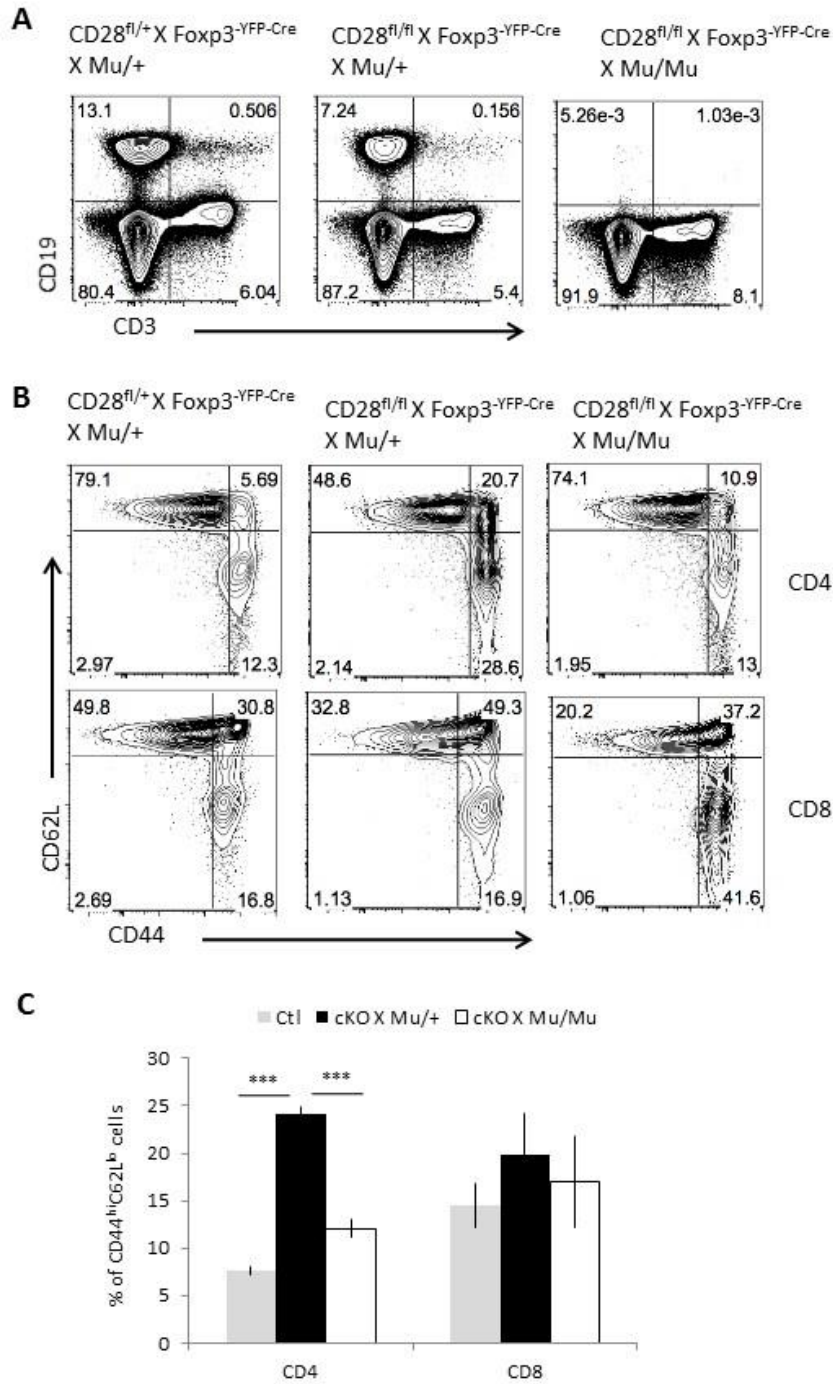


# Supplementary Figure 1



**S1.** Characterization of CD28<sup>fl/fl</sup> X Foxp3<sup>-YFP-Cre</sup> X muMT mice. **A.** CXCR5<sup>+</sup>ICOS<sup>+</sup> T<sub>FH</sub> in 2.5 months old mice. Gate on total CD4<sup>+</sup> cells. **B.** Percentage of CD25<sup>+</sup>YFP<sup>+</sup> Tregs in LN, spleen and thymus. Gate on CD4<sup>+</sup> cells. **C.** Percentage of T<sub>FR</sub> (CXCR5<sup>+</sup>ICOS<sup>+</sup>) in total Tregs (CD4<sup>+</sup>CD25<sup>+</sup>YFP<sup>+</sup>) of 5 months old mice. Over 3 mice of each phenotype were analyzed.

## Supplementary Figure 2



**S2.** B cells deficiency prevents CD4 activation in CD28-ΔTreg mice. **A.** CD19<sup>+</sup> B cells was absent in CD28-ΔTreg X muMT mice. **B/C.** Percentage of CD44<sup>hi</sup>CD62L<sup>lo</sup> effector cells (**B**) in blood of 6 weeks old mice and summary in **C**. Gate on CD4 or CD8. \*\*\*, P<0.001.